CLAIMS

A green sheet coating material containing
 ceramic powder, a binder resin including a butyral based
 resin as the main component, and a solvent, wherein

said solvent contains a first solvent medium having a relatively low boiling point, wherein said binder resin is easy to be dissolved, and a second solvent medium having a relatively high boiling point.

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- 2. The green sheet coating material as set forth in claim 1, wherein said second solvent medium contains at least one selected from 1) monohydric alcohol having a carbon number of 5 to 9, 2) ketones containing a cyclic structure and 3) compounds containing two or more functional groups selected from a -OH group, ether and ketone.
- 3. The green sheet coating material as set forth
 20 in claim 1 or 2, wherein a vapor pressure of said second
 solvent medium at the room temperature is lower than that
 of said first solvent medium.
- 4. The green sheet coating material as set forth
 25 in any one of claims 1 to 3, wherein a boiling point of

said second solvent medium is in a range of 130 to 230°C.

- 5. The green sheet coating material as set forth in any one of claims 1 to 4, wherein a vapor pressure of said second solvent medium at 25°C is in a range of 1.3 to 667 Pa.
- 6. The green sheet coating material as set forth in any one of claims 1 to 5, wherein, when assuming that a boiling point of said second solvent medium is T°C and a vapor pressure of said second solvent medium at 25°C is α Pa, a product of T×α is in a range of 2000 to 65000 (°C × Pa).
- 7. The green sheet coating material as set forth in any one of claims 1 to 6, wherein said second solvent medium has a higher boiling point by 50 to 105°C than a drying temperature at the time of making said green sheet coating material to be a sheet.

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8. The green sheet coating material as set forth in any one of claims 1 to 7, wherein said second solvent medium is included by 5 to 70 wt% with respect to 100 wt% of the entire solvent.

9. The green sheet coating material as set forth in any one of claims 1 to 7, wherein said second solvent medium includes an organic solvent having a higher boiling point by 60 to 150°C than that of alcohol having the lowest boiling point included in said first solvent medium.

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- 10. The green sheet coating material as set forth in any one of claims 1 to 9, wherein said second solvent

 10 medium includes an organic solvent having a vapor pressure at 25°C of 0.1 to 10% of that of alcohol having the highest vapor pressure at 25°C included in said first solvent medium.
- 11. The green sheet coating material as set forth in any one of claims 1 to 10, wherein said second solvent medium includes at least one selected from the 1) to 3) below.
- 1) monohydric alcohol having a carbon number of 5

 20 to 9

1-pentanol, 1-hexanol, 1-heptanol, 1-octanol, 1-nonanol, tarpineol

- 2) ketones containing a cyclic structure cyclohexanon, isophorone
- 25 3) compound containing two or more functional

groups selected from a -OH group, ether and ketone

2-ethoxyethanol, 2-butoxyethanol, diethylene glycol monomethyl ether, diethylene glycol monoethyl ether, diacetone alcohol

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12. The green sheet coating material as set forth in any one of claims 1 to 11, wherein said butyral based resin is a polybutyral resin; and

a polymerization degree of said polybutyral resin

10 is 1000 or more and 1700 or less, a butyralation degree

of the resin is 64% or higher and 78% or lower, and a

residual acetyl group amount is less than 6%.

- 13. The green sheet coating material as set forth

 in any one of claims 1 to 12, wherein said binder resin

 is included by 5 parts by weight or more and 6.5 parts by

 weight or less with respect to 100 parts by weight of

 said ceramic powder.
- 20 14. A production method of a ceramic green sheet, comprising the steps of:

preparing a green sheet coating material as set forth in any one of claims 1 to 13; and

forming a ceramic green sheet by using said green 25 sheet coating material.

- 15. The production method of a ceramic green sheet as set forth in claim 14, wherein a drying temperature at the time of forming a ceramic green sheet by using said green sheet coating material is 50 to 100°C.
- 16. A production method of a ceramic electronic device, comprising the steps of:

preparing a green sheet coating material as set 10 forth in any one of claims 1 to 13;

forming a ceramic green sheet by using said green sheet coating material;

drying said green sheet;

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stacking the green sheets after drying via an internal electrode layer to obtain a green chip; and firing said green chip.

- 17. The production method of a ceramic electronic device as set forth in claim 16, wherein a drying

 20 temperature at the time of drying said green sheet is 50 to 100°C.
 - 18. A green sheet produced by using a green sheet coating material as set forth in any one of claims 1 to 13.